

Title (en)  
ROTOR SYSTEM FOR A WIND TURBINE

Title (de)  
ROTORSYSTEM

Title (fr)  
SYSTÈME DE ROTOR

Publication  
**EP 2486269 B1 20170329 (EN)**

Application  
**EP 10773663 A 20101004**

Priority  
• GB 0917414 A 20091005  
• GB 2010001853 W 20101004

Abstract (en)  
[origin: GB2474080A] A wind turbine generator or propeller rotor comprises a support having first and second rotating members coupled thereto for rotation about a common axis. One or more flexible blades are mounted one end on the first member and another end on the second to rotate about the axis. Actuating means e.g. gearing and motor or linear actuator cause the relative member rotation such that the blades coil around the common axis and the ends of each blade to move closer together by e.g. a telescopic or resilient mast or by sliding along the common axis. Alternatively directly twisting the blades may cause relative rotation and axial movement of the members. There may be a restraining ring between the blade ends for blade support, deformation control and to shield a fully coiled rotor. May be a vertical or horizontal axis machine. Allows pitch change, output control and storm protection.

IPC 8 full level  
**F04D 29/38** (2006.01); **F03D 3/00** (2006.01); **F03D 3/06** (2006.01); **F03D 13/20** (2016.01)

CPC (source: EP GB US)  
**B64C 11/005** (2013.01 - GB); **F03D 1/0608** (2013.01 - GB); **F03D 3/005** (2013.01 - EP US); **F03D 3/061** (2013.01 - EP GB US);  
**F03D 3/062** (2013.01 - EP US); **F03D 7/022** (2013.01 - GB); **F03D 7/06** (2013.01 - GB); **F03D 13/20** (2016.05 - EP US);  
**F04D 29/384** (2013.01 - EP US); **F05B 2240/211** (2013.01 - GB); **F05B 2240/31** (2013.01 - GB); **F05B 2260/71** (2013.01 - GB);  
**F05B 2260/72** (2013.01 - GB); **F05B 2270/1011** (2013.01 - GB); **Y02E 10/72** (2013.01 - EP US); **Y02E 10/728** (2013.01 - EP US);  
**Y02E 10/74** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**GB 0917414 D0 20091118; GB 2474080 A 20110406; GB 2474080 B 20150902;** EP 2486269 A2 20120815; EP 2486269 B1 20170329;  
US 2012243994 A1 20120927; US 9028217 B2 20150512; WO 2011042687 A2 20110414; WO 2011042687 A3 20110616

DOCDB simple family (application)  
**GB 0917414 A 20091005;** EP 10773663 A 20101004; GB 2010001853 W 20101004; US 201013500189 A 20101004